

SLIDER CURVATURE MODIFICATION BY SUBSTRATE MELTING EFFECT
PRODUCED WITH A PULSED LASER BEAM

ABSTRACT OF THE INVENTION

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10 A method and apparatus for producing very high crown and
camber curvature in slider materials using a laser processing
system which produces fluence which is variable in a
controllable manner, by applying a laser beam to the flex side
of the slider material and varying the fluence of the laser beam
to optimize the curvature in the slider material. The fluence is
variable by finely controlling the power output of the laser or
by changing the spot size of the laser beam. The beam spot size
can be changed by using a focusing lens to establish a focal
15 plane and then varying the relative positions of the slider
relative and the focal plane. ↻

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11/3/03
An apparatus for producing high crown and camber is also
disclosed, as well as a slider produced by the process of
applying a laser beam to the flex side of the slider material
20 and varying the fluence of the laser beam to optimize the
curvature in the slider material.